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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/673,068	09/26/2003	Hea-Chun Lee	SWO-0004	9296	
7590 03/24/2005			EXAMINER		
David A. Fox			NGUYEN, DUNG T		
Cantor Colburn 55 Griffin Road		ART UNIT	PAPER NUMBER		
Bloomfield, CT 06002			2871		
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DATE MAILED: 03/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	n No.	.V	Applicant(s)			
E		10/673,06	10/673,068		LEE, HEA-CHUN			
Office Action Summary		Examiner			Art Unit			
		Dung Ngu	yen		2871			
7 Period for R	he MAILING DATE of this communic Reply	ation appears on the	cover she	eet with the co	orrespondence ad	ldress		
THE MA - Extension after SIX - If the peri - If NO per - Failure to Any reply	TENED STATUTORY PERIOD FO ILING DATE OF THIS COMMUNIC as of time may be available under the provisions of (6) MONTHS from the mailing date of this communion of or reply specified above, the maximum statuser reply within the set or extended period for reply within the set or extended period for reply with received by the Office later than three months after a term adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no evenication. days, a reply within the statutory period will apply and will, by statute, cause the appl	ent, however, r story minimum Il expire SIX (6 ication to beco	may a reply be time of thirty (30) days MONTHS from to ome ABANDONED	ely filed will be considered timel he mailing date of this c (35 U.S.C. § 133).			
Status								
1)□ R∈	esponsive to communication(s) filed	on						
2a)□ Th	☐ This action is <b>FINAL</b> . 2b) ☐ This action is non-final.							
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition	of Claims							
4a) 5)□ Cl 6)⊠ Cl 7)□ Cl	aim(s) 1-19 is/are pending in the ap Of the above claim(s) is/are aim(s) is/are allowed. aim(s) 1-19 is/are rejected. aim(s) is/are objected to. aim(s) are subject to restriction	withdrawn from co						
Application	Papers							
10)⊠ The Ap Re	e specification is objected to by the e drawing(s) filed on 26 September plicant may not request that any objective placement drawing sheet(s) including the oath or declaration is objected to be	2003 is/are: a)□ a ion to the drawing(s) b he correction is require	e held in al	beyance. See awing(s) is obje	37 CFR 1.85(a). ected to. See 37 C	FR 1.121(d).		
Priority und	ler 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
Attachment(s)								
	References Cited (PTO-892)			view Summary (				
3) Informati	Draftsperson's Patent Drawing Review (PT on Disclosure Statement(s) (PTO-1449 or P o(s)/Mail Date		Paper No(s)/Mail Date  5) Notice of Informal Patent Application (PTO-152)  6) Other:					

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#### **DETAILED ACTION**

### Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

## Specification

2. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

### Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1, 6-7, 10 and 19 are rejected under 35 U.S.C 102(b) as being anticipated by Hashimoto et al., US Patent No. 5,956,107.

The above claims are anticipated by Hashimoto et al. figure 2 which disclose a liquid crystal display (LCD) apparatus (200) comprising:

- . an LCD panel (4);
- . a plurality of light guide plates (1a and 9);
- . a backlight assembly (5-8);

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. a lamp assembly (3, 8).

5. Claims 1-3, 4, 6-10, 13-19 are rejected under 35 U.S.C 102(b) as being anticipated by Iwamoto et al., US Patent No. 5,046,826.

The above claims are anticipated by Iwamoto et al. figures 1 and 7 which disclose a liquid crystal display (LCD) apparatus (figure 1) comprising:

- . an LCD panel (6);
- . a plurality of guide plates (108) having a spacing part (107-2) therebetween;
- a backlight assembly (reflector/auxiliary reflector 103-1, diffuser 104 having a convexoconcave pattern, figure 7);
  - . a lamp assembly (101-1 and lamp reflector 103-1);
  - . a mold frame (107).

It should be noted that the method claims 13-18 would be inherent over the device claims since there is no specific method to form such display device being claim.

### Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Iwamoto et al., US Patent No. 5,046,826.

Regarding claim 5, Iwamoto et al. disclose the claimed invention as described above except for a blocking protrusion. One of ordinary skill in the art would have realized the desire to form a blocking protrusion to block a reflector in a fixed position. Therefore, it would have been obvious to one skilled in the art at the time of the invention was made employ a blocking protrusion in the Iwamoto et al. auxiliary reflector in order to avoid a movable auxiliary-reflector by blocking the auxiliary reflector in a fixed position.

8. Claims 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hashimoto et al., US Patent No. 5,956,107 and/or Iwamoto et al., US Patent No. 5,046,826, in view of Applicant's admitted prior art (APA), figure 1.

Regarding claims 11-12, Hashimoto et al. and/or Iwamoto et al. disclose the claimed invention as described above except for a front frame as well as a printer circuit board (PCB) and a flexible printer circuit (FPC). APA, figure does disclose a front frame (126) and PCB/FPC (150/140) can be formed in a display device (100). Therefore, it would have been obvious to one skilled in the art at the time of the invention was made to employ a front frame and PCB/FPC in the Hashimoto et al. and/or Iwamoto et al. device, since it is a common practice in the art for supporting a light guiding plate as well as driving the display through PCB/FPC.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung Nguyen whose telephone number is 571-272-2297. The examiner can normally be reached on Tuesday-Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H. Kim can be reached on 571-272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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